## **ATROPINE SULFATE\***

Cholinergic blocking agent

∠ Antidysrhythmic agent

acetylcholine receptors

Decreases vagal tone resulting in increased heart rate and

AV conduction

Allows bronchial dilation and decreases respiratory tract

secretions

Decreases gastrointestinal secretions

∠ Asystole, agonal, PEA (<60 beats/min)
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**Contraindications:** ⊄ Neonates

Adverse Effects: Cardiovascular Neurological

tachycardia seizures increased myocardial dizziness  $O_2$  demand confusion dilated pupils

blurred vision

Respiratory

mucus plugs

Gastrointestinal General
difficulty swallowing hot, dry skin
dry mouth worsens glaucoma

Administration:

Adult- Organophosphate (nerve agent) Poisoning

2mg IVP, IM or 4mg ET.

May repeat IVP/IM/ET dose every

5 minutes until patient is breathing adequately and secretions

begin to dry.

Pediatric >1 month: \*\*Do not Administer Atropine to Neonates

Organophosphate (pesticide/nerve agent) Poisoning Minimum single dose 0.1mg - maximum single dose 2mg

> 0.05mg/kg IVP, IM, or 0.1mg/kg ET. May repeat IVP/IM/ET dose every

5 minutes until patient is breathing adequately and secretions

begin to dry.

Onset: 2 - 5 minutes

**Duration**: 20 minutes

**Precautions:** 

Administer supplemental oxygen and monitor rhythm frequently. The increased heart rate may increase myocardial oxygen demand

and result in ischemia and dysrhythmias.

Note:

Atropine is not recommended in asymptomatic bradycardia.

The increase in myocardial oxygen demand may cause or

extend a myocardial infarction.

May cause paradoxical slowing of heart rate if less than the therapeutic dose is given; Minimum dose is 0.3mg in adults and

0.1mg in pediatric patients.

Worsens glaucoma due to pupillary dilation.

Pupil reaction may not be a reliable indicator for hypoxic brain

damage after atropine administration.

High doses of atropine may be required in organophosphate

poisoning.

Use 1mg/ml preparation for IM administration and 1mg/10ml preparation for IVP/ET administration. May need to use the 1mg/ml preparation and dilute with NS for any dose that exceeds recommended ET administration volume (minimum

2ml - maximum 10ml).

<u>Signs/Symptoms of Organophosphate Poisoning:</u> Tearing of eyes, ataxia, hypotension, wheezing, seizures, confusion, abdominal cramps, watery nasal discharge, nausea/vomiting, loss of reflexes, generalized weakness, constricted pupils, bradycardia, diarrhea, extreme salivation, sweating, and urination.

EMERGENCY MEDICAL SERVICES A GENCY

<sup>\*</sup>This card is modified to identify use of this drug as part of a nerve agent antidote regimen.